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CLAIM LISTING

This listing of claims will replace all prior versions and listings of claims in the application. Please add claim 18.

- 1. (Currently amended) A high-intensity UV illuminating device for <u>rapid</u> crosslinking <u>of</u> biocompatible, polymerisable material in order to produce an ophthalmic moulding in a casting mould consisting of two mould halves, comprising at least one UV lamp which is surrounded by a plurality of optical fibres, wherein each optical fibre is linked to one casting mould.
- 2. (cancelled)
- 3. (previously presented) UV illuminating device according to claim 1, wherein the UV lamp is a mercury lamp.
- **4.** (previously presented) UV illuminating device according to claim 3, wherein the UV lamp is a doped mercury lamp.
- 5. (previously presented) UV illuminating device according to Claim 1, wherein the optical fibres are liquid optical fibres.
- 6. (previously presented) UV illuminating device according to Claim 1, wherein the emission spectrum of the UV lamp has a high UV intensity at 280 360 nm.
- 7. (previously presented) UV illuminating device according to Claim 1, further comprising a sensor, wherein the sensor measures the radiation intensity of the UV lamp and is connected to a regulating unit to regulate the UV radiation.
- **8.** (previously presented) UV illuminating device according to Claim 1, further comprising a measuring unit which measures the emitting UV radiation intensity.
- **9.** (previously presented) UV illuminating device according to Claim 1, wherein in order to couple in the UV radiation, a quartz rod is respectively provided between the UV lamp and the light admission area of each of the optical fibres.
- **10.** (previously presented) UV illuminating device according to claim 9, wherein a cut-on filter is provided between the quartz rod and the optical fibre in order to absorb short-waved UV radiation.
- 11. (cancelled)

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12. (previously presented) UV illuminating device according to Claim 1, wherein a diaphragm is provided between the optical fibre and the UV lamp.

- 13. (previously presented) UV illuminating device according to claim 12, wherein the aperture of the diaphragm is adjusted by means of a stepping motor unit.
- 14. (previously presented) UV illumination device according to Claim 1, wherein the aperture of the diaphragm is controlled in accordance with the measurement of UV radiation intensity being emitted.
- **15.** (previously presented) UV illuminating device according to Claim 1, wherein a UV condenser is mounted between the optical fibre and the upper mould half.
- **16.** (previously presented) UV illuminating device according to Claim 1, wherein the optical fibres are arranged radially around the UV lamp in relation to the longitudinal axis of the UV lamp.
- 17. (previously presented) UV illuminating device according to Claim 1, wherein each optical fibre provides a level of UV illumination to one casting mould sufficient to cause the polymerizable material to be polymerised throughout the entire casting mould.
- **18**. (New) UV illuminating device according to claim 1, wherein said rapid crosslinking is achieved in a single step process.